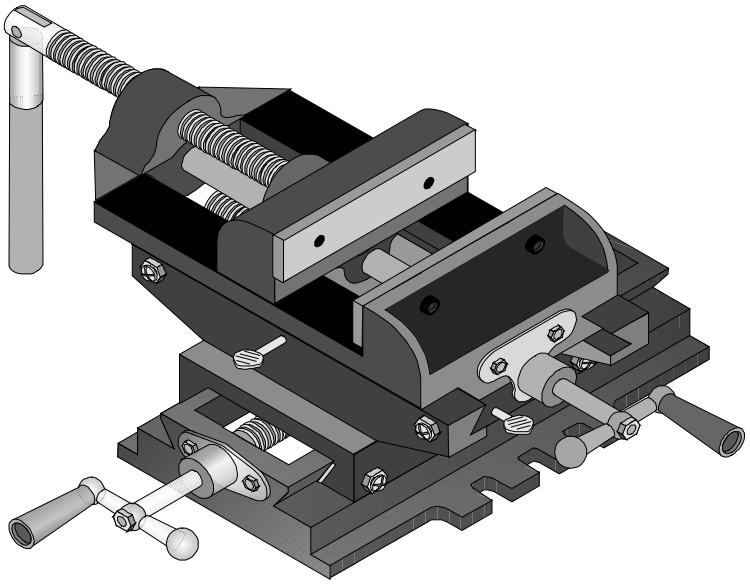
# Cross Slide Vise

**Item 32997**



## ⚠WARNING

**Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.**

When unpacking, make sure that the product is intact and undamaged.
If any parts are missing or broken, please call 1-800-444-3353 as soon as possible.

**Visit our website at: http://www.harborfreight.com**

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Revised Manual 11f

## SPECIFICATIONS

| | |
|---|---|
| Cross Travel | 7-1/4 IN. |
| Overall Height | 6-1/8 IN. |
| Maximum Jaw Opening | 5-3/4 IN. |
| Longitudinal Travel | 7-1/2 IN. |
| Jaw Depth | 1-1/4 IN. |

## SAVE THIS MANUAL

**READ ALL INSTRUCTIONS BEFORE ASSEMBLING OR OPERATING THE CROSS SLIDE VISE.**

You will need this manual for the safety instructions, operating instructions, and parts list. Put it in a safe, dry place for future reference. Keep your invoice with this manual. Write the invoice number on the inside front cover.

## SAFETY WARNINGS & CAUTIONS

**WARNING:** When using electric tools, machines or equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury.

### READ ALL INSTRUCTIONS BEFORE USING THIS TOOL

1. **KEEP WORK AREA CLEAN.** Cluttered areas invite injuries.
2. **CONSIDER WORK AREA CONDITIONS.** Don't use in damp, wet, or poorly lit locations. Don't expose to rain. Keep work area well lit.
3. **KEEP CHILDREN AWAY.** All children should be kept away from the work area. Don't let them handle machine.
4. **STORE IDLE EQUIPMENT.** When not in use, tools should be locked up in a dry location to inhibit rust. If possible, store in an area out of reach of children.
5. **DO NOT FORCE THE MACHINE OR TOOL.** It will do the job better and more safely at the rate for which it was intended.
6. **USE THE RIGHT TOOL.** Don't force a small tool or attachment to do the work of a larger industrial tool. Don't use a tool for a purpose for which it was not intended.
7. **DRESS PROPERLY.** Don't wear loose clothing or jewelry. They can be caught in moving parts. Protective gloves and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair, preventing it from getting caught in machinery.
8. **USE EYE AND EAR PROTECTION.** Use a full face mask if the work you are doing produces metal filings, dust or wood chips. Goggles are acceptable in other situations. Wear a clean dust mask if the work creates a lot of fine or coarse dust. When operating for extended periods of time, use approved ear protection. Safety goggles and ear protectors are available from Harbor Freight Tools.
9. **SECURE WORK.** Use clamps or a vise to hold the work if possible. It's safer than using your hands and it frees both hands to operate the tool.

10. **DON'T OVERREACH.** Keep proper footing and balance at all times.

11. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Keep handles dry, clean, and free from oil and grease.

12. **STAY ALERT.** Watch what you are doing, use common sense. Don't operate any tool when you are tired.

13. **CHECK DAMAGED PARTS.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and other conditions that may affect its operation. Any part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in the instruction manual.

14. **REPLACEMENT PARTS AND ACCESSORIES.** When servicing, use only identical replacement parts. Only use accessories intended for use with this tool. Approved accessories are available from Harbor Freight Tools.

15. **DO NOT OPERATE TOOL IF UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate machine.

## UNPACKING

If any parts are missing or broken, please call Harbor Freight Tools at the number on the cover of this manual.

| REF | ITEM DESCRIPTION | QTY |
|---|---|---|
| N/A | Cross Slide Vise | 1 |
| 1 | Handle | 2 |
| 2 | Nut M8 | 2 |

## ASSEMBLY

Your Vise comes partially assembled. To complete assembly you will need a 14mm wrench.

Step 1: Place the Vise on a clear area of your workbench.

Step 2: Slide a HANDLE (1) onto the LEAD SCREW (8), rotating the HANDLE (1) until it fits onto the square end of the LEAD SCREW (12) as shown in Figure 1.

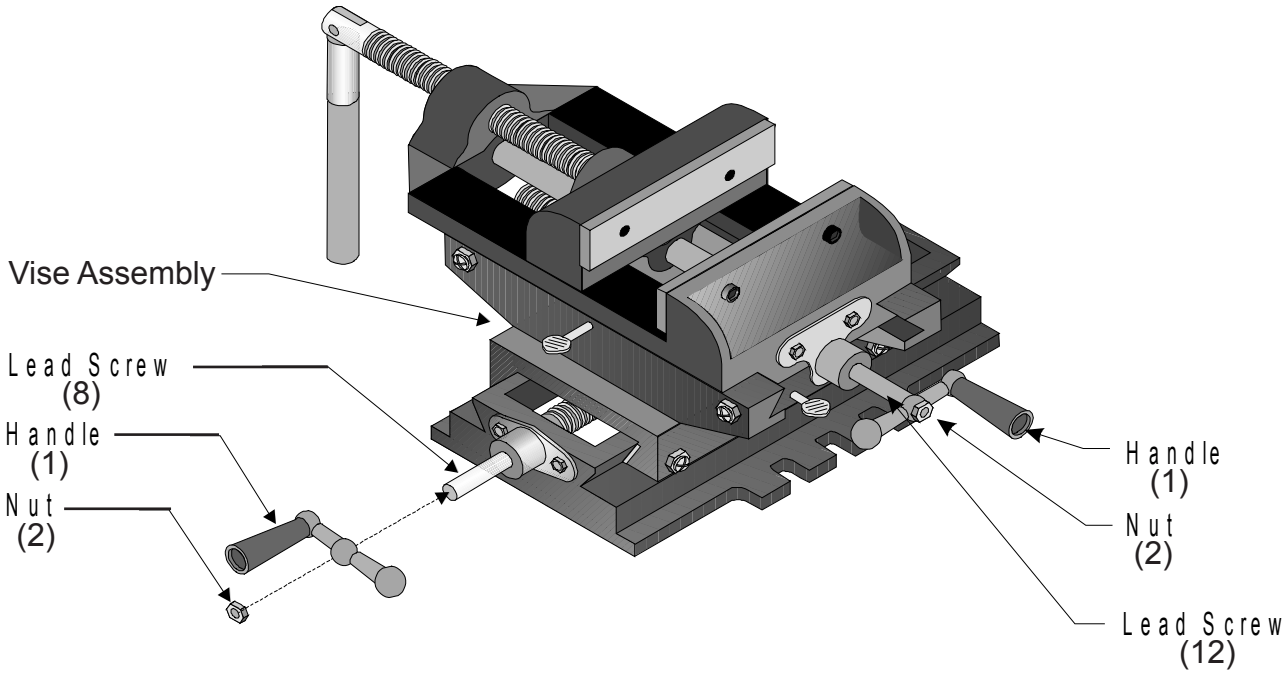



***Figure 1 -- Handle Assembly***

Step 3: Attach a NUT (2) and tighten with a 14mm wrench.

Step 4: Locate the other HANDLE (1) and slide it onto the LEAD SCREW (12).

Step 5: Attach a NUT (2) and tighten with a 14mm wrench.

## Attaching the Vise to a T-Slot Table

Step 1: You will need additional hardware (sold separately) to complete installation.

Step 2: Place the assembled Vise onto the T-Slot Table. Select the appropriate rows in the T-Slot Table which line up with the Mounting Tabs on the BASE (9).

Step 3: Insert 2 to 6 T-Slot mounting bolts into the T-Slot Table rails.

Step 4: Place the Vise on the T-Slot Table in the position you want. Make sure the mounting tabs on the BASE (9) line up with the mounting bolts as shown in Figure 2.

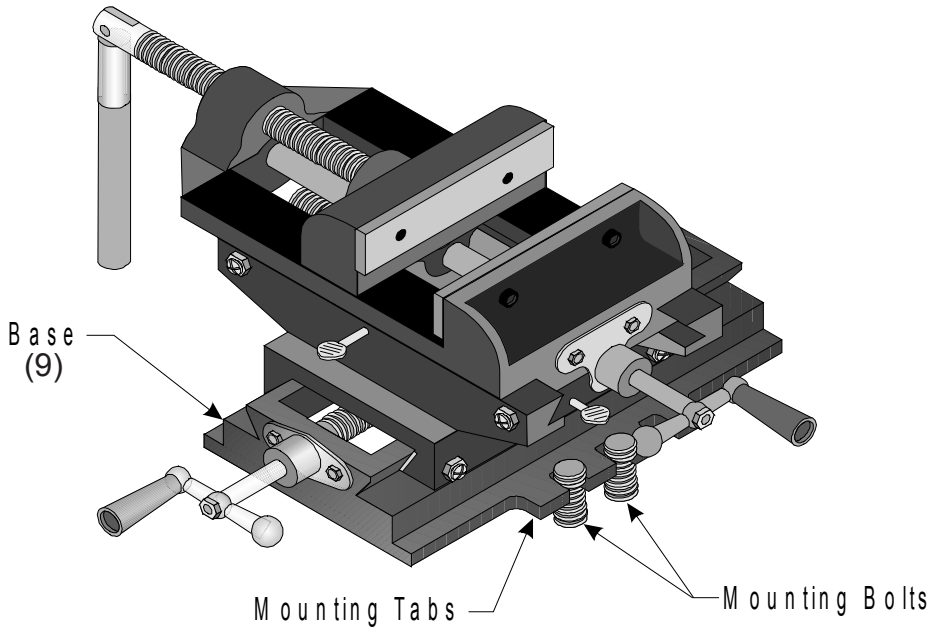



***Figure 2 -- Attaching Base to Table***

Step 5: Thread nuts on the mounting bolts and tighten by hand.

Step 6: Position the Vise a final time. Tighten the mounting nuts firmly.

## OPERATION

### Clamping

Step 1: Center the Vise before clamping anything. This will allow maximum adjustment flexibility in every direction.

Step 2: To open the Jaws of the Vise, open the SLIDE (24) by turning the LEAD SCREW (21) as shown in Figure 3.

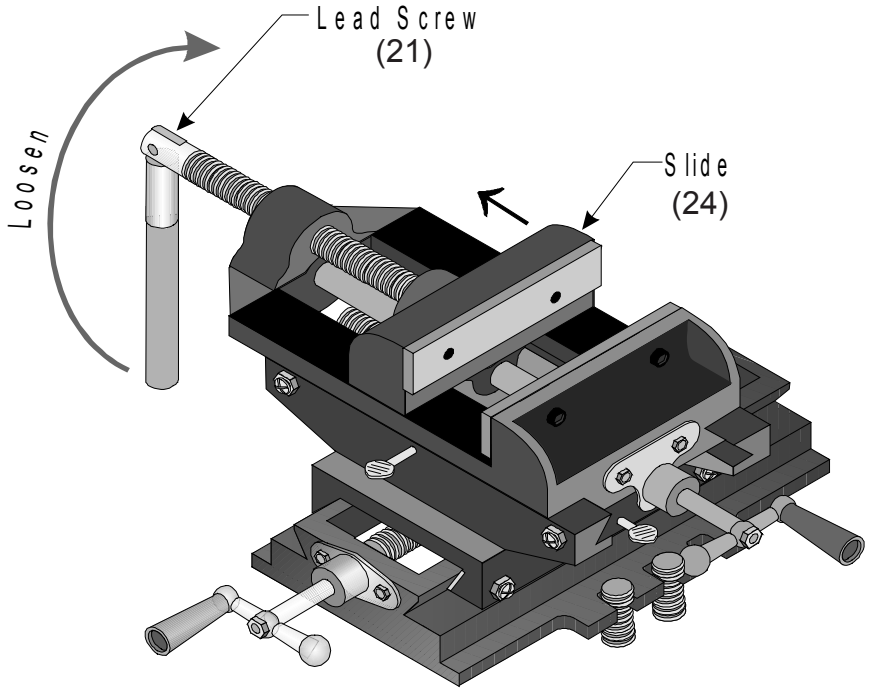



***Figure 3 -- Opening Jaws***

Step 3: Insert the material to be clamped. If the material is small, place it over one of the runners of the UPPER BASE (20) as shown in Figure 4. This will keep the material from falling below into the Vise.

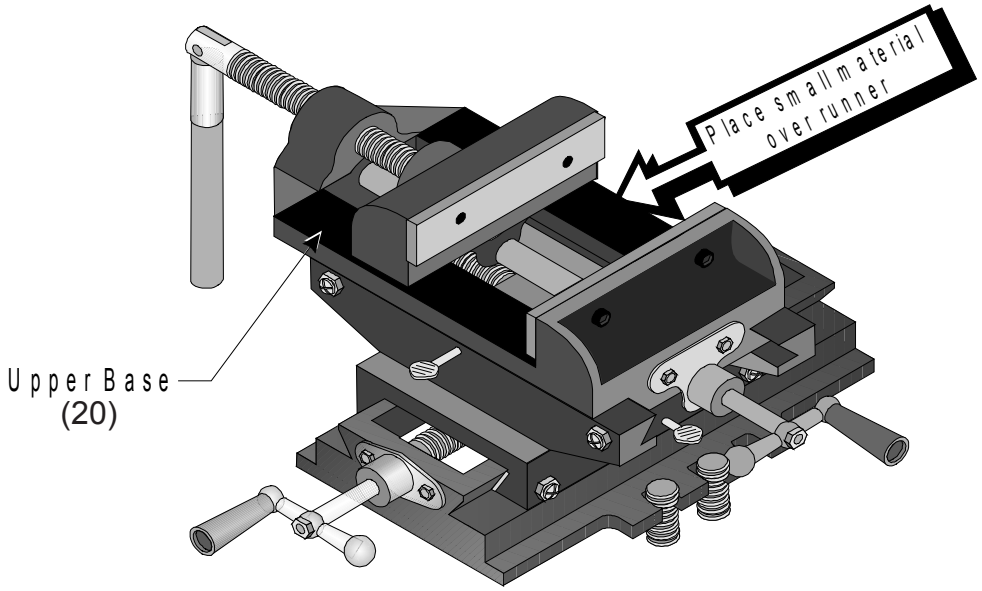



***Figure 4 -- Placing Small Material***

Step 4: Begin to close the SLIDE (24) by turning the LEAD SCREW (21). This will tighten the Jaws of the Vise.

Step 5: When the SLIDE (24) touches the material you are working on, tighten the SLIDE (24) only enough to ensure clamping. DO NOT CRUSH the material you are working on.

**CAUTION**

Do Not Over Tighten the Vise. You Will Damage Your Material.

## Cross Sliding the Vise

Determine the position of the Vise that will give you the safest and best access to the material clamped in the SLIDE (24).

Step 1: To adjust the longitudinal (fore/aft) axis of the Vise, locate the LEAD SCREW (8) and HANDLE (1).

Step 2: Turn the HANDLE (1) counterclockwise to move the MID-BASE (18) and UPPER BASE (20) further towards the rear of the BASE (9) as shown in Figure 5.

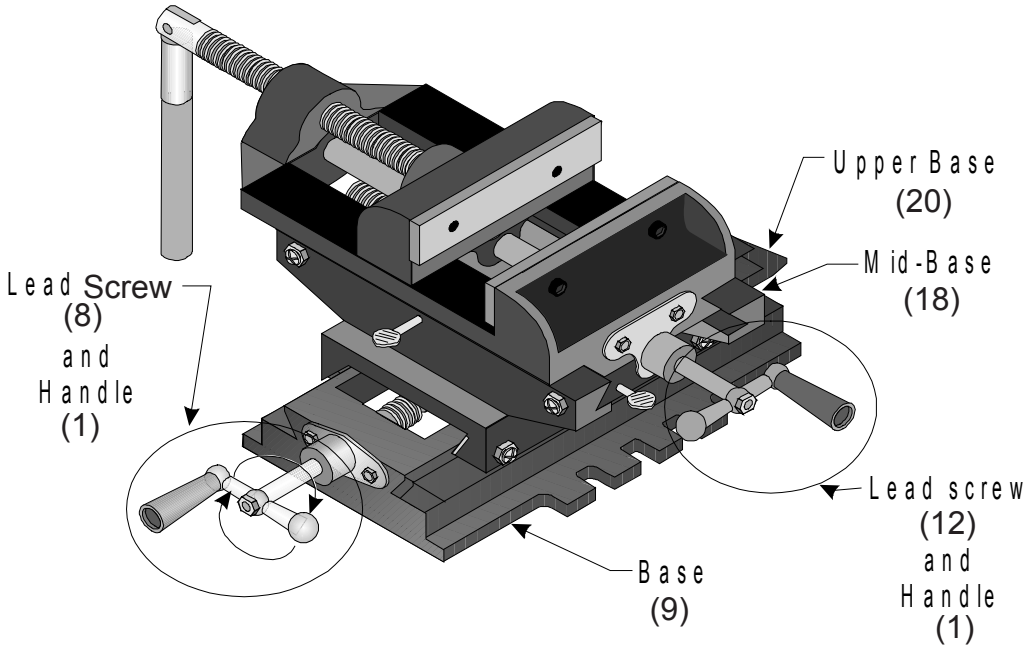



***Figure 5 -- Moving Mid Base and Upper Base***

Step 3: Turn the HANDLE (1) clockwise to move the MID and UPPER BASE (18 & 20) closer to the HANDLE (1). Position for best access.

Step 4: To adjust the cross travel (side to side) axis of the Vise, locate the LEAD SCREW (12) and HANDLE (1).

Step 5: Turn the HANDLE (1) clockwise to move the UPPER BASE (20) to the left as shown in Figure 6.

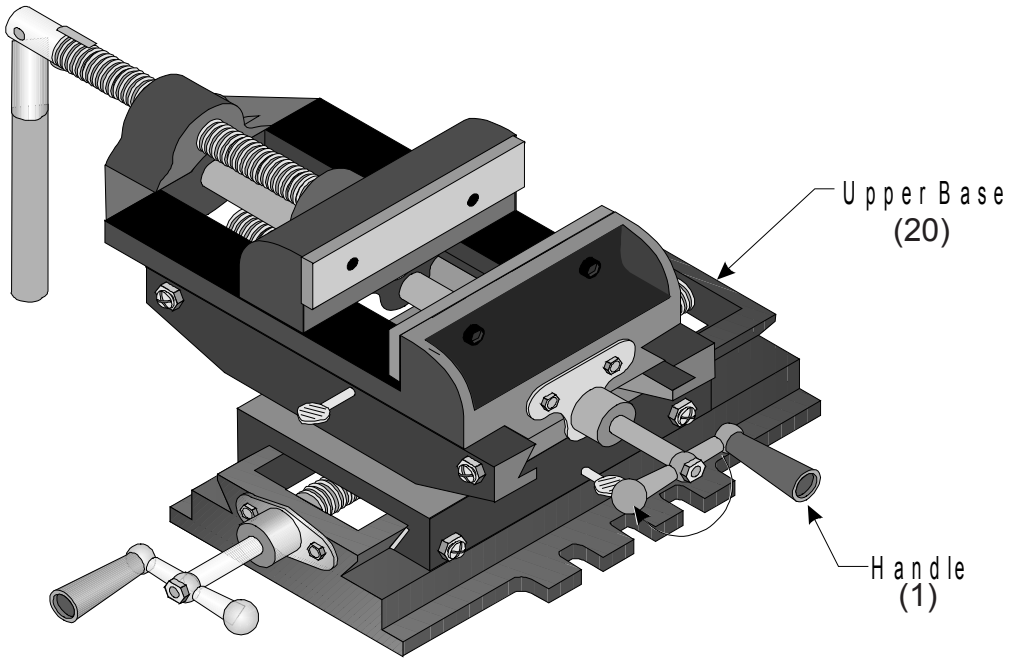



***Figure 6 -- Moving Upper Base to the Left***

Step 6: Turn the HANDLE (1) counterclockwise to move the UPPER BASE (20) to the right. Position for best access.

## Locking the Vise

Your Vise BASES can be locked into position to prevent accidental movement. You will need a 10mm end wrench and a Phillips screwdriver for this operation.

Step 1: Select which BASE (9) you want you lock into position.

Step 2: Loosen the two NUTS (16) as shown in Figure 7.

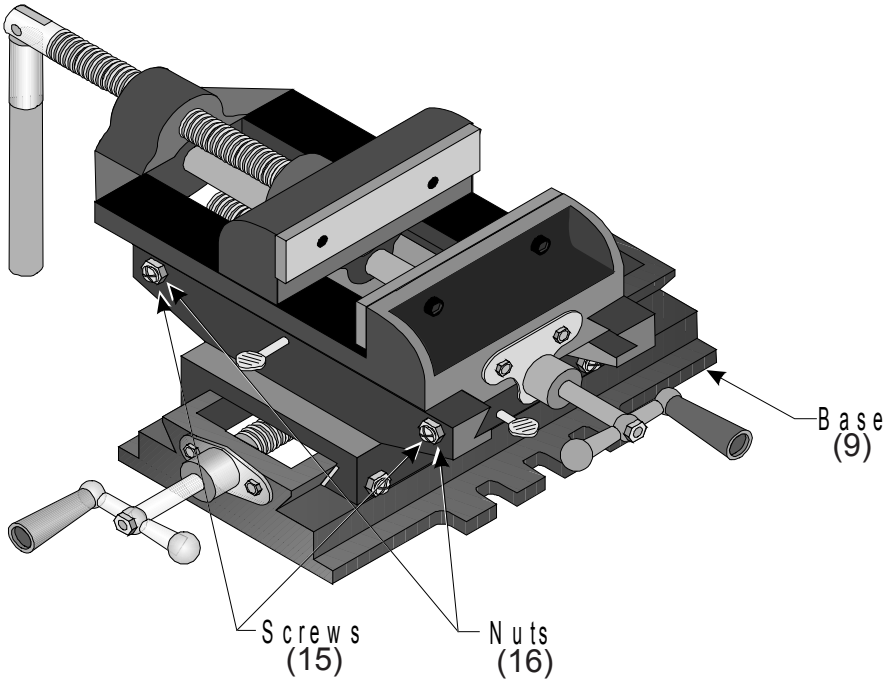



***Figure 7 -- Locking the Vise***

Step 3: Tighten the SCREWS (15) until they press the GIB (14, not shown) against the BASE (9).

Step 4: Tighten the NUTS (16) to lock the BASE (9) in position.

Step 5: Repeat, if desired, for the unlocked Base.

## MAINTENANCE

Occasional lubrication of the Vise will ensure smooth operation and longer tool life. Use a light oil for lubrication purposes. Refer to Figure 8 for lubrication points.

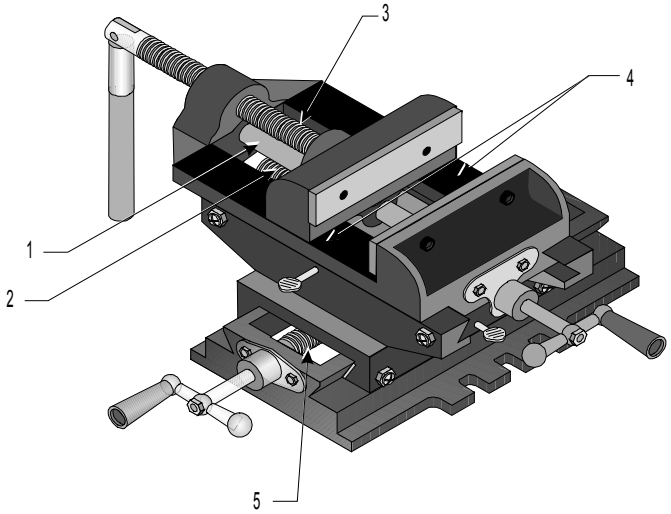


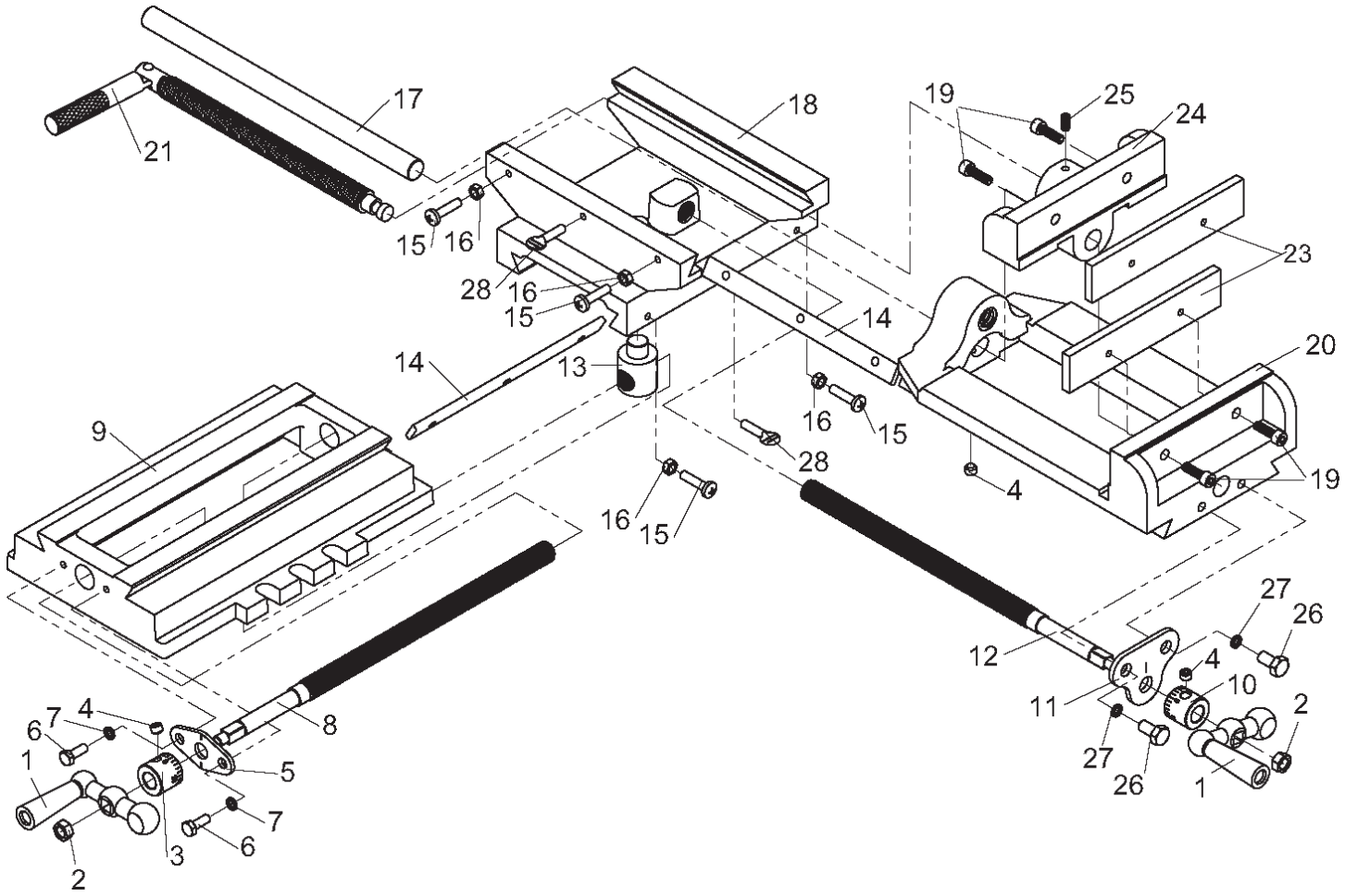

***Figure 8 -- Lubrication Points***

## PARTS LIST

| PART | DESCRIPTION | QTY |
|---|---|---|
| 1 | Handle | 2 |
| 2 | Nut M8 | 2 |
| 3 | Bushing | 1 |
| 4 | Screw M8 x 6 | 3 |
| 5 | Bracket | 1 |
| 6 | Bolt M6 x 16 | 2 |
| 7 | Spring Washer 6mm | 2 |
| 8 | Lead Screw | 1 |
| 9 | Base | 1 |
| 10 | Bushing | 1 |
| 11 | Bracket | 1 |
| 12 | Lead Screw | 1 |
| 13 | Nut | 1 |
| 14 | Gib | 2 |

| PART | DESCRIPTION | QTY |
|---|---|---|
| 15 | Screw M6x 25 | 4 |
| 16 | Nut M6 | 4 |
| 17 | Central Slide Bar | 1 |
| 18 | Mid-Base | 1 |
| 19 | Lock Screw M6 x 20 | 4 |
| 20 | Upper Base | 1 |
| 21 | Lead Screw | 1 |
| 23 | Jaw Plate | 2 |
| 24 | Slide | 1 |
| 25 | Screw M6 x 13 | 1 |
| 26 | Bolt M8 x 15 | 2 |
| 27 | Spring Washer 8mm | 2 |
| 28 | Screw | 2 |

## ASSEMBLY DIAGRAM



## LIMITED 90 DAY WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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**PLEASE READ THE FOLLOWING CAREFULLY**

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS DOCUMENT AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

**Record Product's Serial Number Here:**_____

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.